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IEG/PHD-32-69
20 February 1969

MEMORANDUM FOR: Chief, Technical Services & Support Group, NPIC

5X1 ATTENTION: [redacted]

THROUGH: Chief, Imagery Exploitation Group, NPIC

SUBJECT: Improving Measuring Accuracy of the [redacted] 25X1
Stereo Viewer

5X1 REFERENCE: [redacted] Report on Evaluation of Scale Error and
Orthogonality of the [redacted] Stereo Viewer 25X1

5X1 1. While the [redacted] study and report are very well done and supply excellent information, it is believed that the recommended procedure is not in the best interest of PHD. Past experience in attempting to correct for errors by programming "adjustment equations" and "correction grids" indicate that these are more expensive and less reilable than mechanical improvements made to the instrument.

2. PHD recommends that:

a. The instrument be cleaned, adjusted and repaired to its original performance level. This may eliminate the drift and stuttering conditions. It may also eliminate the variable focus problem and improve the non-orthogonality situation. It is agreed, as stated in the report, that no sound judgment can be made as to the best means to improve the accuracy of the instrument until its optimum performance in its present configuration is determined. Any measurement correction procedure is worth very little until the secular and periodic errors of the screws are known. As stated in [redacted] report, no firm data on these errors are possible with the instrument in its present condition. 25X1

b. After the above has been accomplished, a full investigation should be made of the error characteristics as is briefly outlined in the first paragraph of Section VI (3)(c) of referenced report.

Declass Review by NGA.

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3. Once the error characteristics of the instrument in its present form are determined, then a decision can be made to pursue one of the following courses of action:

a. Use the instrument as is with additional adjusting of motions, orthogonality, etc.

b. Install correction cams and slots on present lead screws.

c. Install better lead screws. (The lead screws of the Point Transfer Device (operate) satisfactorily).

d. Install a laser interferometer measurement system [redacted] has made suggestions that they could do this). 3X1

[redacted] 25X

Deputy Chief, Photogrammetry Division, IEG/NPIC

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Orig. & 1 - NPIC/TSSG
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FROM	DATE
Dep Ch/PHD	24 Feb 69

TO		INITIALS	DATE	REMARKS
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SPECIAL ASST				
ASST TO DIR				
ASST TO DEP/DIR				
CH/PPBS				
DEP CH/PPBS				
EO/PPBS				
CH/IEG	1	[initials]	2/24	
DEP CH/IEG				
EO/IEG				
CH/PSG				
DEP CH/PSG				
EO/PSG				
CH/DBD/PSG				
CH/TSSG	2	P		
DEP CH/TSSG				
EO/TSSG				
DIR/IAS/DDI				
CH/DIA/XX4				
CH/DIA/AP-1P				
CH/SPAD				

Remarks:

[redacted]

Please review with [redacted] & make recommendations on attn: Ch/DED over next step.

P

Mo Sigin may be of help.

Approved For Release 2005/05/02 : CIA-RDP78B04770A002100020002-6

1P FM 30 (1-68) DESTROY PREVIOUS EDITIONS